Prolonged application time

Blekinge Institute of Technology is seeking:

**PhD in strategic sustainable development with focus on sustainable product development**

At BTH, Blekinge Tekniska Högskola/Blekinge Institute of Technology, Department of Strategic Sustainable Development in Karlskrona

Reference number BTH 3.1.2-0390-2016

**The research team**

In our research team we develop decision support methodology for companies, municipalities and other organizations that want to work strategically with sustainable development and to contribute to the society's transition to sustainability in a way that strengthens the organization. Our research and our education attract partners and students from all over the world and we are major contributors to BTH's vision to be a "globally attractive knowledge community within applied IT and innovation for sustainable growth.” All of our research is done through collaborative projects with partners in industry and society.

**About the position:**

For the PhD student position you will learn and practice to use scientific work methods and publish results in scientific forums, as well as developing applicable tools. You will participate in projects with industrial partners and in the development of the research area strategic sustainable development with focus on sustainable product development.
The goal with the research is to support companies to increase their capabilities for sustainability integration and implementation in the early product development phases, with improved decision support in the day-to-day engineering environment. This means that the PhD student specially needs to contribute to:

- Increase maturity and applicability of methods and criteria developed together with industrial partners.
- Develop a modeling based decision support system applicable in early phases of conceptual work.
- Identify sustainability and value targets and methods to measure, quantify and visualise the consequences of different solutions.
- Clarify relationships between sustainability criteria, indicators and product requirements and how these can be part of decision support for sustainable product development.

In the PhD position it usually include to support education and training in our courses and Programmes (max 20%). Examples of tasks include support in course development and implementation within the sustainability area, in addition to other forms of administration.

**Required qualifications:**

- Academic education at master of science level in the field of sustainability, sustainable product development or similar specializations.
- Knowledge about methodology for strategic sustainable development and ability to apply such methodology in the area of product development- and modeling based system.
- High level communication skills and experience to make written and oral presentations in the engineering-and sustainability areas or related areas.
- Ability to work effectively both independently and in groups.
- Teaching ability and interest.
- Fluent in English (spoken and written).
- Basic Swedish language skills or the ambition to learn Swedish within a two-year period.

**Extent: 100%**

**Duration:** To a licentiate degree. This means maximum of 2.5 years if the position is divided in 80% research and 20% department work, or maximum of 2 years if the position is 100% research. If possible, the position is prolonged to a PhD degree with the same research focus.

**Start:** According to the agreement.

**For more information:** For more information about the employment, you are welcome to contact the Head of the Department: Göran Broman, tel. 0455-385504, e-post: goran.broman@bth.se or Research area-leader for Sustainable Product Development: Sophie Hallstedt, tel. 0455-38 55 11, e-post: sophie.hallstedt@bth.se. Union representative is Mikael Åsman (SACO), tel. 0455-385720 and Stina Valdenäs (OFR), tel. 0455-385492.

**Application at the latest:** 2016-12-13

**Application**

Please submit your application, marked with registration number. Applications should be sent to: diarium@bth.se

The Blekinge Institute of Technology values both men's and women's experiences. Therefore, BTH welcomes applications from both men and women for all kinds of employment.

**BTH, Blekinge Institute of Technology,**

BTH, is one of the most distinctly profiled universities in Sweden, where applied IT and innovation for sustainable growth are in focus. In our education and research, engineering and IT are integrated with other disciplines such as urban planning, industrial economics, design and health sciences to contribute to solving the challenges facing society. Everything we do at BTH has three distinct perspectives: innovation, sustainability and in real life, which
means cooperation and exchange with both business and industry as well as society. A characteristic of BTH is the close cooperation with industry and society, which permeates both education and research at the regional, national and international level. We conduct education and research at a high international level. BTH has two faculties – the Faculty of Computing and the Faculty of Engineering.

*Welcome with your application!*